

23526

P/033/61/013/001/009/009

Integral treatment of bar structures... D242/D301

strain may be disregarded, putting $C^i = 0$ (Ref. 8: Ye. P. Popov, Nelineynye zadachi statiki tonkikh strelzney, Moskva, 1948). The squares of the rotation angles are neglected as small compared with unity, and denoting $\overset{\sigma}{E}{}^l = \delta_j^l B^j$, $\overset{\sigma}{\Omega}_{kl} = \delta^{ll}\epsilon_{jkl}(B^j - \overset{\sigma}{B}{}^j)$,

$$\overset{\sigma}{E}{}^j = \delta_j^l C^l, \quad \overset{\sigma}{\Omega}_{kl} = \delta^{ll}\epsilon_{jkl}(C^j - \overset{\sigma}{C}{}^j),$$

where ϵ_{jkl} is the Ricci symbol, the physical relation is

$$\begin{cases} \overset{\sigma}{\gamma}{}^l = (\overset{\sigma}{E}{}^j + \overset{\sigma}{\Omega}_{jj}^l \omega) M^j, \\ \overset{\sigma}{\epsilon}{}^l = (\overset{\sigma}{E}{}^j + \overset{\sigma}{\Omega}_{jj}^l \omega) P^j, \end{cases} \quad (3.6)$$

The equation differs from that given by Kirchhoff by $\overset{\sigma}{\Omega}_{ij}^l$ which is rejected for a linearly elastic system. Eliminating the functions $\overset{\sigma}{\epsilon}{}^l$ and $\overset{\sigma}{\gamma}{}^l$ the following integral matrical equations are obtained

$$\left| \ddot{\omega}^l(\sigma) = \sum_{n=0}^n \left[A_l^n (\overset{\sigma}{E}{}^k + \overset{\sigma}{\Omega}_{kk}^l \ddot{\omega}^k) M^k dr \right] \right. \quad (4.1)$$

Card 5/8

23526

P/033/61/013/001/009/009
D242/D301 X

Integral treatment of bar structures...

$$\left\{ \begin{array}{l} u^i(\sigma) = \sum_{n=0}^{\tilde{n}} \left[\Delta u^i + \int_{\sigma_n}^{\sigma_{n+1}} A_j^i (E_{\bar{k}}^j + \Omega_{ik}^j \bar{\omega}^i) P^{\bar{k}} d\tau \right] + g^{ij} e_{jkl} \left(r^k \bar{\omega}^l - (s) \int_{\sigma_0}^{\sigma} r^k d\bar{\omega}^l \right), \end{array} \right. \quad (4.1)$$

$$\left\{ \begin{array}{l} P^i(\sigma) = \sum_{n=0}^{\tilde{n}} \left[(\Delta P^i - Q_{ii}^n) + \int_{\sigma_n}^{\sigma_{n+1}} (p^i - q^{ii}) d\tau \right], \\ M^i(\sigma) = \sum_{n=0}^{\tilde{n}} \left(\Delta M^i + \int_{\sigma_n}^{\sigma_{n+1}} m^i d\tau \right) + g^{ij} e_{jkl} \left(\bar{r}^k P^l - (s) \int_{\sigma_0}^{\sigma} \bar{r}^k dP^l \right) \end{array} \right. \quad (4.2)$$

To eliminate the unknown parameters $\hat{\Delta}u^i$, $\hat{\Delta}\bar{\omega}^i$, and the unknown parameters $\hat{\Delta}p^i$, $\hat{\Delta}M^i$, the boundary values of (a) support the continuity condition for the functions $u^i(\sigma)$ and $\bar{w}^i(\sigma)$ and (b) the equilibrium conditions for the boundary points and hinges are sub-

Card 6/8

23526

P/033/61/013/001/009/009

Integral treatment of bar structures... D242/D301

stituted. The roots of the system are expressed in functional form involving integrals with constant integration bounds under which the function sought appear. In the particular case of the right hand members containing constant parameters only, the boundary conditions give directly the functions sought. This is the static problem of linearly elastic bar structures. All quantities obtained in this way apply only for small rotation angles ($> 5^\circ$). In conclusion, the last set of equations described in a compact form all the problems of bar structures satisfying the assumptions made. From the integral equations given by V.V. Bolotin (Ref. 3: Dinamicheskaya ustoychivost' uprugikh sistem, Moskva, 1956) they differ in that they do not require previous determination of the Green function. Their solution may be obtained using the method of I.A. Birger (Ref. 4: Nekotoryye matematicheskiye metody resheniya inzhenernykh zadach, Oborongiz, Moskva, 1956), being more convenient than the solution methods of the boundary value problems for the Kirchhoff-Clebsch differential equations. There are 2 figures and 9 references: 7 Soviet-bloc and 2 non-Soviet-bloc.

Card 7/8

23526

P/053/61/013/001/009/009

D242/D301

Integral treatment of bar structures

ASSOCIATION: Technical University of Silesia, Gliwice

SUBMITTED: July 29, 1960

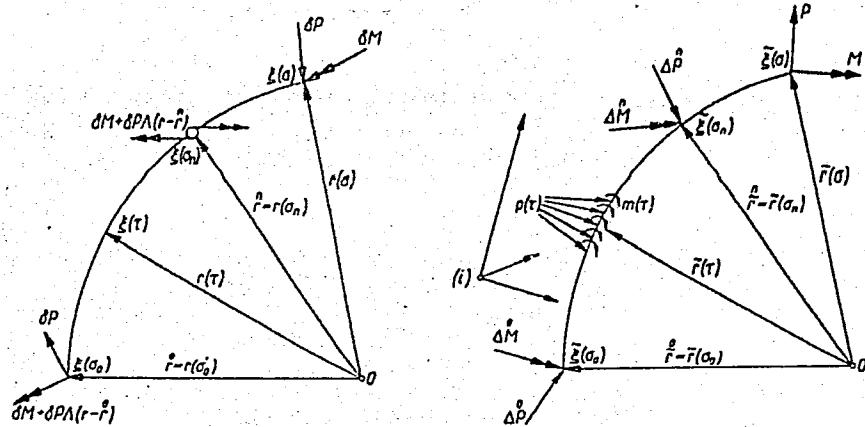


Fig. 1

Card 8/8

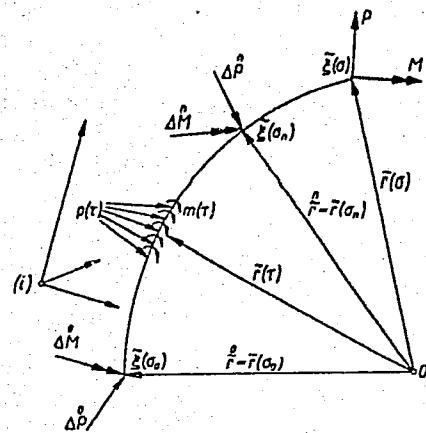


Fig. 2

26347
P/033/61/013/003/001/008
D287/D303

24.4200 1327 2807

Wozniak, Czeslaw (Gliwice)

AUTHOR:

TITLE:

PERIODICAL:

On the equations of the general theory of thin shells
Archiwum mechaniki stosowanej, v. 13, no. 3, 1961,
311-320

TEXT: In this article the author discusses the problem of reducing the number of unknown functions in equations of the general theory of thin shells. He further considers equations of the geometry of linear deformation of the shell's middle surface. The author points out that the number of unknowns (and the equations) of the general theory of thin shells can be reduced to six. He mentions that this problem was already treated by Wei-Zang Chien (Ref. 1: Quart. Appl. Math., 1, 1943; 1 and 2, 1944) and Kh. M. Mushtari (Ref. 2: Prikl. Mat. Mekh., 2, 12, 1948). In both cases, however, the sixth (non-differential) equilibrium equation was disregarded. The problem of reducing the number of independent forces and moments to six, by making use of the sixth equilibrium equation and the so-called additional equation was presented by A. I. Lur'ye (Ref. 4: Card 1/3

26347
P/033/61/013/003/001/008
D287/D303

On the equations...

Prikl. Mat. Mekh., 5, 14, 1950) who, however, confined himself to orthogonal coordinates in curvature lines. In the present article it is proved that the state of stress of a thin shell can be expressed in terms of two tensors, where a tensor is understood as a symmetric affinor of valency (0,p) or (p, 0). The number of components of the state of stress is then equal to the number of components of the state of strain. The author points out that the tensor notation used in this article is based on that used by S. Gołab (Ref. 5: Rachunek tensorowy (Tensor Calculus), Warsaw 1956). With respect to the equations of geometry of linear deformation of the shell's middle surface, the author derives a new form of the geometric equations and indicates an analogy which occurs in the structure of the equations of internal and external deformation. In this connection, the author discusses a small deformation of the shell, a rotation of an element in the middle surface of the shell, as well as the change of the curvature of a surface due to deformation. He further discusses the integrability conditions as well as the compatibility conditions for strain. The author repeatedly refers to A. L. Goldenbeyzer (Ref. 7: Prikl. Mat. Mekh., 8, 9, 1945) in connection with this subject.

Card 2/3

On the equations...

26347
P/033/61/013/003/001/008
D287/D303

There are 9 references: 6 Soviet-bloc and 3 non-Soviet bloc. The references to the two English-language publications read as follows: Wei-Zang Chien, The intrinsic theory of thin shells and plates, Quart. Appl. Math., 1, 1943; 1 and 2, 1944; A. E. Green, W. Zerna, Theoretical elasticity, Oxford 1954.

ASSOCIATION: Technical University of Silesia, Gliwice

SUBMITTED: November 8, 1960

X

Card 3/3

10.6000 1327

31126
P/033/61/013/005/003/006
D265/D302

AUTHOR: Wozniak, Czeslaw (Gliwice)

TITLE: Solving the Hilbert problem for a certain class of membrane shells

PERIODICAL: Archiwum mechaniki stosowanej, v. 13, no. 5, 1961,
585-594

TEXT: In this paper a method is described of determining the state of stress in a membrane shell which is of the form of a curvilinear quadrangle, one pair of edges being supported to carry the normal forces. The method is based on solving a boundary value problem for a system of differential equations which are presented in a simplified form by expressing the middle surface of the shell by means of a system of Liouville coordinates. For shells with positive Gaussian curvature considered; the Riemann-Hilbert problem is solved for the system of equilibrium equations

Card 1/3

31126
P/033/61/013/005/003/006
D265/D302

Solving the Hilbert problem ...

$$\frac{\partial t}{\partial \alpha} + \frac{\partial s}{\partial \beta} = -\frac{x^*}{\mu}, \quad \frac{\partial t}{\partial \beta} + \frac{\partial s}{\partial \alpha} = -\frac{y^*}{\mu} \quad (1.1)$$

by considering first the Cauchy problem for this system. The membrane forces are expressed in terms of hyperbolic and trigonometric series together with integrals of power series with coefficients. The method of solution is illustrated by an example for the shell shown in Fig. 1. There are 1 figure and 5 Soviet-bloc references.

ASSOCIATION: The Polytechnic Institute of Silesia, Gliwice

SUBMITTED: March 29, 1961

Card 2/3

Solving the Hilbert problem ...

31126
P/033/61/013/005/003/006
D265/D302

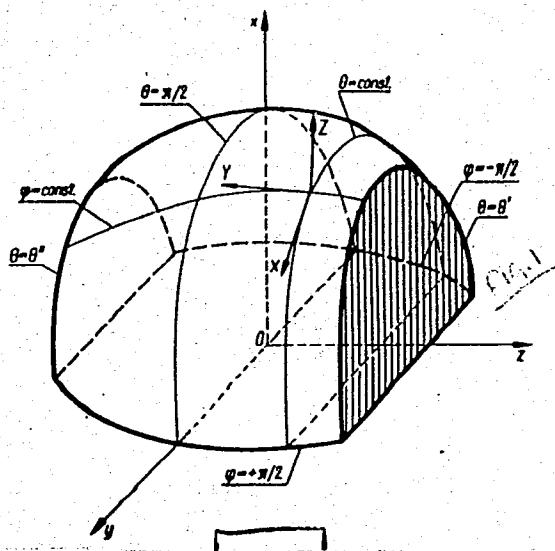


Fig. J.

Card 3/3

WOZNIAK, C.

The aggregate equations of anisotropic nonhomogeneous thin shells.
Bul Ac Pol tech 10 no.9:531-535 '62.

1. Technical University of Silesia, Gliwice. Presented by W.
Nowacki.

WOZNIAK, C.

Solution of the Hilbert problem for a certain class of membrane shells. Bul Ac Pol tech 10 no.9:537-542 '62.

1. Technical University of Silesia, Gliwice. Presented by W. Nowacki.

WOZNIAK, C.

Strain state of continuous medium described by methods of the group theory. Bul Ac Pol tech 10 no.9:543-548 '62.

1. Technical University of Silesia, Gliwice. Presented by W. Nowacki.

WOZNIAK, Czeslaw

The aggregate equations of anisotropic nonhomogeneous thin shells .
Archiw mech 14 no.5:821-839 '62.

1. Technical University of Silesia, Gliwice.

WOZNIAK, Czeslaw

Critical states of nonuniformly heated circular plates initially curved. Archiw inz lad 9 no.3:307-312 '63.

WOZNIAK, Czeslaw

Stressless deformation of thin shells in the steady temperature
field. Archiw mech 15 no.3:327-339 '63

1. Technical University of Silesia, Gliwice.

WOZNIAK, Cz.

Finite deformation of shells; analysis of the strain geometry. Archiw mech 15 no.4:535-545 '63

1. Technical University, Gliwice.

SITKO, Wojciech; WOZNIAK, Czeslaw; WIRA, Szczepan.

Methods of computing the influence numbers for self compensating pipelines. Budown Gliwice no.12:63-77 '64.

1. Department of Mechanics and Strength of Materials of the Silesian Technical University, Gliwice.

LUKOWIAK, Marian; WOZNIAK, Czeslaw (Lodz)

A certain method of diagonalizing an elasticity matrix. Archiw
inz lad 11 no.11:47-52 '65.

1. Submitted June 18, 1964.

WOZNIAK, C.

Fundamentals of the theory of fibrous media. Bul Ac Pol
tech 12 no.7:463-467 '64.

Fibrous media as continuous models of grates. Ibid.:557-560

Fibrous media as continuous models of frames and lattices.
Ibid.:561-564

1. Department of Structural Mechanics of the Technical
University Lodz. Presented by W. Nowacki.

WOZNIAK, C.

Equations of three-dimensional fibrous media. Bul Ac Pol
tech 12 no.8; 565-569 '64.

1. Department of Structural Mechanics of the Technical
University, Lodz. Presented by W. Nowacki.

"APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R001961720016-8

WOZNIAK, Czeslaw

On anisometric space transformations. Budown Gliwice
no.8:3-13 '62.

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R001961720016-8"

WOZNIAK, Czeslaw

Secondary stresses in flatly bent bars. Budown Gliwice
no.8:67-77 '62.

WOZNIAK, Danuta

39th Scientific Congress of the Section of Zoological Gardens
of the Polish Zoological Society. Przegl zoolog 6 no.4:
316-317 '62.

WOZNIAK, Franciszek

Anatomopathological and histopathological changes in the testicle
in the light of geriatrics. Ann univ. Lublin sec. D, 15:217-225
'60.

1. Z Katedry i Zakladu Anatomii Patologicznej Wydzialu Lekarskiego
Akademii Medycznej w Lublinie Kierownik: prof. dr med. Stanislaw
Mahrburg.

(TESTES pathol) (AGING)

FIJALKOWSKA, Teresa; WOZNIAK, Franciszek

Tuberculosis of the stomach. Description of a single case.
Ann. univ. Lublin sec. D 15.381-388 '60

1. Z Katedry i II Kliniki Chirurgicznej Wydziału Lekarskiego Akademii Medycznej w Lublinie Kierownik: prof. dr med. Feliks Skubiszewski i z Katedry i Zakładu Anatomii Patologicznej Wydziału Lekarskiego Akademii Medycznej w Lublinie Kierownik: prof. dr med. Stanisław Mahrburg.

(TUBERCULOSIS GASTROINTESTINAL case reports)

POLAND

FLORKIEWICZ, Henryk, GOLACKA, Krystyna, and WOZNIAK, Franciszek; First Clinic of Internal Diseases (I Klinika Chorob Wewnętrznych) (Director: Prof. Dr. Mieczyslaw KEDRA) and Department of Pathological Anatomy (Zaklad Anatomii Patologicznej) (Director: Prof. Dr. Stanislaw MAHRBURG), both of the AM [Akademia Medyczna, Medical Academy] in Lublin

"Sprue nostras. Case Report."

Warsaw, Polski Tygodnik Lekarski, Vol 18, No 33, 12 Aug 63.
pp 1226-1228

Abstract: [Authors' English summary modified] Authors report a case of a male, 29-years of age, suffering from periodic diarrhea and progressive loss of weight for eight years. He died 18 days after admission to the hospital. The autopsy revealed atrophy of the mucose of the small intestine, and diffuse peritonitis due to perforation of multiple ulcerations of the small intestine. The authors suggest that the ulceration was probably due to atrophic changes of the mucosa, which erupted on hormonal treatment. 13 refs: 8 Polish and 6 Western.

1/1

HANZLIK, Janusz; WOZNIAK, Franciszek; LOPATYNISKI, Jerzy

Generalized thrombosis in arteriosclerosis. Pol. tyg. lek. 19
no. 36:1376-1377 7 S '64.

1. Z II Kliniki Chorob Wewnętrznych Akademii Medycznej w
Lublinie (kierownik: prof. dr Alfred R. Tuszkiewicz) i z
Zakładu Anatomii Patologicznej Akademii Medycznej w Lublinie
(kierownik: prof. dr Stanisław Mahrburg).

MARKIEWICZ, Marian; WOZNIAK, Franciszek

Rupture of a pseudo-aneurysm of the aorta perforating into the esophagus. Pol. tyg. lek. 20 no.12:443-444 22 Mr '65

l. Z I Kliniki Chorob Wewnętrznych (Kierownik: prof. dr. med. Mieczysław Kedra) i Zakładu Anatomii Patologicznej Akademii Medycznej w Lublinie (Kierownik: doc. dr. med. Maria Rozynek).

WOZNIAK, Franciszek

Neoplasms in the post-mortem material of the department of pathological anatomy, Medical Academy, Lublin, in the Years 1945--1960. Ann. Univ., Lublin sect.D 16:197-203 '61.

1. Z Katedry i Zakladu Anatomii Patologicznej Wydzialu Lekarskiego Akademii Medycznej w Lublinie Kierownik: prof. dr med. Stanislaw Mahrburg.

(NEOPLASMS) (AUTOPSY)

SIKORA-SCHIRLE, W.; WOZNIAK, I.I.

Histo-topography of epidermal changes in the ground substance
and fibrous connective tissue in foci of chronic lupus erythematosus.
Przegl. derm. 48 no.8/177-190 '61.

I. Z Kliniki Dermatologicznej A.M. w Lodzi Kierownik: Prof. dr med.
J. Lutowiecki i z Zakladu Anatomii Patologicznej A.M. w Lodzi
Kierownik: Prof. dr med. A. Pruszczyński.
(LUPUS ERYTHEMATOSUS pathol)
(SKIN pathol)

WOZNIAK, Henryk

Peptic ulcer in children. Pediat. Pol. 39 no.12:1353-1357
D 164

1. Za Szpitala Dziecięcego w Bydgoszczy (Dyrektora Lek. med.
E. Latos).

POLAND/Chemical Technology - Chemical Products and Their
Application. Food Industry.

II.

Abs Jour : Ref Zhur - Khriniya, No 10, 1959, 36330.

Author : Goch, H., Szyzko, A., Wozniak, J.

Inst :

Title : The Vitamin Value of Certain Preserves.

Orig Pub : Przem. spozywczy, 1958, 12, No 8, 300-303.

Abstract : There were submitted the results of the content analysis of vitamins A, B, B₂, PP, C and B-carotin in certain meat and meat-vegetable preserves, and also in fruit compotes. It was established that the examined preserves are a good source of the B-complex vitamins; the greatest amount of these vitamins is contained in veal and in English goulash; the least, in beef with buckwheat porridge. -- From the authors' resume.

Card 1/1

H-151

POLAND

Jan WOZNIAK (Affiliation not given)

"Damage to the Human Organism by Radioactive Isotopes."

Warsaw, Farmacja Polska, Vol 18, No 19, 10 Oct 1962; pp 472-475.

Abstract: Review and discussion of fallout from testing; I^{131} and P^{32} in medical diagnosis; chemical and biological 'half-life' concepts; need for differentiating toxic from actinic effects; considering particle size, solubility. Radiocolloids, phagocytosis; role of protein binding and complex formation both in pathogenesis and therapy; accumulation of polonium in inflammatory foci. [Three Polish, 6 Soviet, 3 Western ref's.]

1/1

WOZNIAK, Jan; SZYSZK), Edmund

Polyphosphates in food. Pt. 7. Roczn panstw zakl hig 14 no.6:
517-528 '63.

1. Laboratory for Testing Food and Articles of Common Consumption,
State Institute of Hygiene, Warsaw.

WOZNIAK, Jan, mgr inz.

New products of the W. Pieck Electric Machine and Transformer Works. Wiad elektrotechn 32 no.5/6:137-139 My-Je '64.

WOZNIAK, Jan, mgr inz.

New products of the W. Pieck Electric Machinery and Transformer
Manufacturing Works. Wiad elektrotechn 31 no. 5:95-97 My '63.

WOZNIAK, Jan

Contamination of the human organism by radioactive isotopes.
Farmacja Pol 18 no.19:472-475 10 0 '62.

*

WOZNIAK, Jan

Contamination of the human organism by radioactive isotopes.Pt.2.
Farmacja Pol. 19 no.19/20: 403-406 25 0'63.

WOZNIAK, J.

A voice from the country. p.236.

PRZEGIAD GEODEZYJNY. Warszawa, Poland. Vol. 15, no. 6, June 1959.

Monthly List of East European Accessions (EEAI), LC. Vol. 8, No. 9, September 1959
Uncl.

DABROWSKI, Stanislaw; WOZNIAK, Jan; ZAKOWSKA, Teresa

Military aspects of psychiatric legal expert testimony. Neur. &c.
polska 10 no.6:831-838 '60.

l. z Kliniki Psychiatrycznej A.M. w Poznaniu, Kierownik: prof. dr
R.Dreazer.
(PSYCHOLOGY MILITARY jurisprudence)

SCHRAMMOWA, Halina; WOZNIAK, Jan

Mental disorders as a sign of hyperergic reactions to certain drugs (4 cases of mental disorders after atropine and scopolamine therapy. Neur.&c.polska 10 no.6:845-852 '60.

1. Z Kliniki Psychiatrycznej A.M. w Poznaniu, Kierownik: prof. dr R.Dressler.

(SCOPOLAMINE toxicol)

(ATROPINE toxicol)

(PSYCHOSES TOXIC case reports)

WOZNIAK, Jan

Infra-red radiation in food technology, pharmacy, medicine and
biology. 1. Infra-red radiation during the drying process.
Farmacja Pol 16 no.19:407-409 O '61.

1. Zaklad Badania Zywosci i Przedmiotow Uzytku, Państwowy Zaklad
Hygiény, Warszawa.

WOZNIAK, Jan

SURNAME, Given Names

Country: Poland

Academic Degrees: [not given]

Affiliation: [not given]

Source: Warsaw, Farmacja Polska, Vol XVI, No 19, 10 October 1961,
pp 407-409

Data: "Infrared Radiation in Food Technology, Pharmacy, Medicine
and Biology. 1. Infrared Radiation in the Process of
Desiccation."

GPO 981643

WOZNIAK, Jan

Experimental nuclear explosions and the protection of food.
Farmecja Pol 20 no. 5/6:167-171 25 Mr '64.

WOZNIAK, J.; FOLDYNA, V.

Structural modifications during the tempering of low-carbon alloy steel. p. 663.

HUTNICKE LISTY. Vol. 11, no. 11, Nov. 1956

Brno, Czechoslovakia

SOURCE: East European Lists (EEAL) Library of
Congress, Vol. 6, No. 1, January 1957

67139

15.2220

AUTHORS: Foldyna, Václav, Engineer and Wozniak, Jiří**TITLE:** Mechanism of Precipitation of Special Carbides,
Particularly Vanadium Carbide**PERIODICAL:** Hutnické listy, 1960, Nr 1, pp 33 - 40**ABSTRACT:** Analysis of literary data indicates that two differing views exist on the mechanism of precipitation of vanadium carbide. The authors have carried out experiments which were so planned that the results should prove the correctness of one or the other of the prevailing views. A steel with a low C and V content was chosen, which had the following chemical composition: 0.13% C; 0.49% Mn; 0.26% Si; 0.017% P, 0.019% S; 0.56% Cr and 0.28% V. In this type of steel, only two carbide phases occur, namely, Fe_3O and V_4C_3 . It was found that the mechanism of precipitation of vanadium carbide during tempering of the carbide does not differ qualitatively from the mechanism of precipitation of vanadium carbide during the annealing of bainitic structures. In both cases, the vanadium carbide precipitates from the solid solution. Gradually,

4

Card1/3

67139

CZECH/34-60-1-7/23

Mechanism of Precipitation of Special Carbides, Particularly
Vanadium Carbide

decomposition of the cementite is made possible by rejection of vanadium carbide from the solid solution, whereby the solid solution becomes impoverished of carbon, as a result of which the equilibrium between alloyed ferrite and cementite is disturbed. The drop in carbon in the solid solution is substituted by the carbon from the cementite. Thus, it is formed during the later stages of precipitation directly from the ferrite at the expense of decomposing a part of the cementite. The time lag between the formation of vanadium carbide during the tempering of the martensite and annealing of the bainitic structures, as well as the shift in the maxima of the secondary precipitation hardening, are not caused by a change in the mechanism of carbide precipitation.

Card 2/3

67139

CZECH/34-60-1-7/23
Mechanism of Precipitation of Special Carbides, Particularly
Vanadium Carbide

There are 3 figures, 1 table and 21 references, of
which 7 are Czech, 8 English, 1 international, 2 Swedish
and 3 German.

ASSOCIATION: Výzkumný VŽKG, Ostrava
(Research Institute VŽKG, Ostrava)

SUBMITTED: September 1, 1959

4

Card 3/3

Z/034/60/000/04/001/028
E073/E535

AUTHORS: Kodrle, Luděk, Engineer and Wozniak, Jiří, Industrial Chemist

TITLE: Study of the Conditions of Manufacture of Magnetically Soft Steels

PERIODICAL: Hutnické listy, 1960, Nr 4, pp 253-260

ABSTRACT: Steel required for relay manufacture is practically pure commercial iron with very low coercive force values and very high stability during magnetic ageing. There is invariably scattering in the magnetic values which depend not only on the size of the cast ingots but also on the scattering of the chemical compositions of the individual heats. It was found that there are differences in the magnetic values of material taken from various parts of the ingots, which are attributed to non-homogeneities. Also, it was found necessary to develop a systematic classification of material in individual intermediate operations which would ensure the possibility of manufacture of magnetically soft steel in several grades with stepped values of the coercive force and a minimum scattering in the coercive force in the individual grades. For this purpose the authors studied in detail the influence of

Card 1/6

Z/034/60/000/04/001/028
E073/E535

Study of the Conditions of Manufacture of Magnetically Soft Steels

the chemical composition, of the structure and of the individual manufacturing parameters on the magnitude and stability of the coercive force at normal and at elevated temperatures. The authors evaluated the results of Matz and Peter (Ref 2) and, in an earlier paper (Ref 3), the influence of the chemical composition on the magnetic properties was determined. These results had to be further verified from the point of view of the manufacturing conditions pertaining in Czechoslovakia and to determine not only the influence of the chemical composition but also that of the structure, particularly of the ferritic grain size, which proved to be a very important factor. On the basis of conclusions on the influence of the chemical composition on the magnetic properties, the manufacture of the steel in the steelworks and its hot and cold rolling were subjected to investigation. This was based on specimens intended for measuring the magnetic values and taken from individual parts of ingots of a large number of heats. For determining the influence of manufacturing parameters

Card 2/6

2/034/60/000/04/001/028
E073/E535

Study of the Conditions of Manufacture of Magnetically Soft Steels

the following factors were investigated on specimens taken from 23 heats: influence of the content of aluminium and FeMn used for deoxidation on the coercive force after annealing and after ageing; influence of the carbon content after smelting and in the melt analysis on the magnitude of the coercive force; dependence of the decarburization speed during deposphorizing in the pure boil and during the entire process of smelting on the coercive force. The results are given in the plots, Figs 1-5. The influence of the chemical composition and of the structure was studied, namely: the coercive force after annealing was determined on specimens from 33 heats. After measuring the coercive force specimens were made for metallographic determination of the ferrite grain size for analysing the gases by vacuum extraction and for chemical analysis. A total of 90 specimens from various parts of the ingots were investigated which provided an adequate picture of the distribution of the coercive force throughout the entire ingot cross-section.

Card 3/6 For a statistical study the values of specimens of equal

Z/034/60/000/04/001/028
E073/E535

Study of the Conditions of Manufacture of Magnetically Soft Steels

coercive force were grouped together and forty values were used for graphical correlation. The chemical composition and the magnetic values of those specimens that had been used for the graphical correlation are entered in Table 1, p 254. These values were used for plotting the relative frequency, in percent, of the coercive force after annealing and after ageing and of the increase in the coercive force after ageing for 200 hours at 100°C (Figs 7 and 8). The influence of the chemical composition on the increase of the coercive force was also studied on the basis of forty sets of values. By the method of graphical multiple correlation, the influence was investigated of all the elements and the dependence was determined for Mn, N, O, S and Cr; the influence of C, P, Cu and H₂ was not determined. The results are plotted in Figs 9 and 10. In a similar manner the coercive force was determined for specimens of rolled strips after annealing and ageing (Figs 11 and 12) on the basis of data of nineteen specimens, as given in Table 2. The micro-structure was studied on transverse cuts after etching with nital or saturated FeCl₃ solution in water. The

Card 4/6

Z/034/60/000/04/001/028
E073/E535

Study of the Conditions of Manufacture of Magnetically Soft Steels

structure consists of ferrite and tertiary cementite, which is distributed in the form of a fine network at the boundaries of the ferritic grains. Fig 13 shows a diagram of the relative frequency of individual ferrite grain sizes. Figs 14 and 15 are reproductions of microstructure photographs of material of equal chemical composition but with differing sizes of the ferritic grain and differing coercive force values. The results of investigations of the relation between the coercive force, hardness and grain size are plotted in Figs 16 and 17. It was found that, apart from obtaining a specified chemical composition, it is essential that care should be taken in the cold rolling process of produced steel with a minimum grain size of 3 to 4 (ASTM, E, 1946). By systematic selection of ingot base parts, rolling of wide strips and by selection of edge as well as central parts of these strips it proved possible to produce magnetically soft steel for 60% of the material with a coercive force of 0.8 Oe and an increase in the coercive force below 10% for an ageing period of 600 hours, whereby the coercive force of the entire manufactured material did not exceed 1.0 Oe after

Card 5/6

Z/034/60/000/04/001/028
E073/E535

Study of the Conditions of Manufacture of Magnetically Soft Steels

300 hours. By systematic selection of material from the bottom parts of the ingots it became possible to produce material with maximum coercive forces of 0.5 to 0.9 Oe after annealing. The permissible increase in the coercive force is not exceeded for the given Mn content. Rolling of wide strips enabled further improvement of the magnetic values; by sub-dividing the wide strip longitudinally a maximum coercive force of 0.8 Oe was obtained for the edge sections, comprising about 60% of the strip, after 600 hours ageing at 100°C (Fig 18). The central sections of the strip, comprising about 40% of the strip area has the coercive force of 1.0 Oe after ageing for 300 hours at 100°C. The material produced by the here described method is proved fully comparable in quality to imported material. The increase in the coercive force during the process of ageing is below 10%.

There are 20 figures, 3 tables and 6 references, 4 of which are Czech, 1 Soviet and 1 German.

ASSOCIATION: Výzkumný ústav VŽKG, Ostrava (Research Institute,
VŽKG, Ostrava)

SUBMITTED: November 3, 1959
Card 6/6

WOZNIAK, Jozef, inz.

Mechanization of charging and scoria removing from distilling furnaces with horizontal muffles in zinc plants. Wiad hut 17 no.7/3;223-229 Jl-Ag '61.

WOZNIAK, Jozef, inz.

Furnace for the production of high-purity zinc powder.
Wiad hut 19 no. 6: 158-163 Je '63.

L 18818-65 EWT(m)/EPF(n)-2/EWA(d)/T/EWP(t)/EWP(b) Pu-4 IJP(c)/ASD(m)-3 JD/
ACCESSION NR: AP500098 Z/0065/64/000/006/0505/0521

AUTHOR: Foldyna, V.; Wozniak, J. (Voznyak, Y.); Michel, A. (Mikhel',
A.)

TITLE: Structural changes during tempering of molybdenum- and
vanadium-alloyed heat-resistant 12% Cr steels

SOURCE: Kovove materialy, no. 6, 1964, 505-521

TOPIC TAGS: molybdenum alloyed steel, vanadium alloyed steel, heat
resistant steel, chromium steel

ABSTRACT: A detailed study was conducted of the structural changes
which take place in the delta ferrite during the tempering of
modified 12% Cr steels. It was found that in both molybdenum- and
vanadium-modified steels, secondary hardening of the delta ferrite
during tempering at 450—750C for a maximum of 100 hr is caused by
the precipitation of the M₂X phase and V(C,N); in molybdenum-modi-
fied steels only, such hardening is caused by the precipitation of
the M₂X and Cr₂N phases. During tempering at temperatures near 600C,
the M₂X and Cr₂N phases.

Card 1/2

L 18818-65

ACCESSION NR: AP5000098

precipitation of the M_2X phase in the martensite caused only a retarded decrease in the microhardness of the martensite. In addition to the phases mentioned, the carbides $M_{23}C_6$ and M_6C were identified in the martensite and in the delta ferrite. Orig. art. has: 14 figures and 9 tables.

ASSOCIATION: VUM VZKG, OSAKA

SUBMITTED: 25May64 ENCL: 00 SUB CODE: MM

NO REF SOV: 001

OTHER: 027

Card 2/2

WOZNIAK, Jozef, inzo.

Shaft furnace for the production of zinc and lead. Wiad hüt
18 no. 10:313-316 6 962.

WOZNIAK, L.; WOJACZYNKA-SZADOWSKA, A.; ZAWADZKA, K.

Morphogenic studies on congenital heart defects. Kardiol. polska
4 no.4:273-289 '61.

1. Z Zakladu Anatomii Patologicznej AM w Lodzi Kierownik: prof. dr
A. Pruszczyński.

(HEART DEFECTS CONGENITAL etiol)

WOJACZYSKA-SZADOWSKA, A.; WOZNIAK, L.; ZAWADZKA, K.

Congenital heart defects in the autopsy material of the J.Korczak Hospital in Lodz. Kardiol. polska 4:291-299 '61.

1. Z Zakladu Anatomii Patologicznej AM Kierownik: prof. dr A.Pruszczyński i Szpitala im. J.Korczaka w Lodzi Dyrektor: dr Z. Pszenicka-Gundlachowa.

(HEART DEFECTS CONGENITAL statist)

WOZNIAK, L.; ZAWADZKA, K.

Myo-elastofibroid cardiac hamartoma. Kardiol. polska 4 no.4:315-319 '61.

1. Z Zakladu Anatomii Patologicznej AM w Lodzi Kierownik: prof. dr A.Pruszczyński.
(HEART neopl) (HAMARTOMA case reports)

KOWLOWSKI, Henryk; WOZNIAK, Leszek; ROWINSKI, Olgierd

Primary argentaffin-cell tumor of the ovary. Ginek. pol. no.4:
451-461 '62;

1. Z Zakladu Anatomii Patologicznej AM w Lodzi Kierownik: prof. dr
A. Pruszczański i z Oddzialu Ginekologiczno-Położniczego Szpitala
Powiatowego w Wieluniu Ordynator: dr O. Rowinski.
(ARGENTAFFINOMA) (OVARIAN NEOPLASMS)

RUSZCZAK, Zdzislaw; WOZNIAK, Leszek

Cytological and histological studies on cantharidin blisters. Przegl.
derm. 49:63-69 '62.

1. Z Kliniki Dermatologicznej AM w Lodzi Kierownik: prof. dr
J. Lutwiecki Z Zakladu Anatomii Patologicznej AM w Lodzi Kierownik:
prof. dr A. Pruszczynski.

(BLISTER) (SKIN) (CANTHARIDES)

BARDACH, Janusz; JEDRASZKO, Boleslaw; PRUSCZYNSKI, Maciej; WOZNIAK, Leszek

Examination of embedded skin implants covered by the epithelium.
Polski przegl. chir. 34 no.6:447-457 Je '62.

1. Z Kliniki Chirurgii Szczekowo-Twarzowej AM w Lodzi Kierownik: doc.
dr J. Bardach i z Zakladu Anatomii Patologicznej AM w Lodzi Kierownik:
prof. dr A. Pruszczyński.

(SKIN TRANSPLANTATION exper)

WOZNIAK, Leszek

Morphology of peripneoplastic connective tissue in skin
epitheliomas. Lodz. tow. nauk [IV] 56:1-80 '64.

WILK-WILCZYNSKA, Maria; WOZNIAK, Leszek

Ocular changes in xanthogranuloma juvenile (naevozanthoendo-thelioma). Klin. oczna 35 no.3:473-480 '65.

1. Z Oddzialu Okulistyczno-Dziecięcej Szpitala im. J. Korczaka w Łodzi (Ordynator: doc. dr. med. M. Wilk-Wilczyńska) i z Katedry i Zakładu Anatomii Patologicznej AM w Łodzi (Kierownik: prof. dr. med. A. Pruszczyński).

WOZNIAK, M.

TECHNOLOGY

Periodicals: PRZEGLAD TECHNICZNY Vol. 79, no. 19, Oct. 1958

WOZNIAK, M. Organization and financing of scientific research work in various countries. I. (To be contd.) p. 891.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 2,
February 1959, Unclass.

WOZNIAK, M.

TECHNOLOGY

Periodicals: PRZEGLAD TECHNICZNY. Vol. 79, no. 22, Nov. 1950

WOZNIAK, M. Organization and financing of scientific research work in various countries. III.p. 1061.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 2,
February 1959, Unclass.

CZARNECKI, Cz., mgr inz.; SOWINSKI, R., mgr inz.; WOZNIAK, M., mgr inz.

Achievements of the Czestochowa Electric Power Works and activities of its factory branch of the Association of Polish Electrical Engineers. Przegl techn 84 no.43:8 27 0 '63.

WOZNIAK, Maria

The problem of reactive psychoses and disorders in the puerperium. Wiad. lek. 18 no.3:213-216 F 1 '65

1. Z Kliniki Chorob Psychicznych Akademii Medycznej w Lublinie (Kierownik: prof. dr. M. Kaczyński).

RYLSKI, Leszek; SENCZUK, Lidia; ADAMIAK, Alicja; PODKOWA, Sabina;
WOZNIAK, Maria

Synthesis of 2-phenyl-1-keto-1,2-dihydrophthalazine derivatives.
Acta Pol. pharm. 22 no.2:111-115 '65.

1. Z Zakladu Technologii Chemicznej Srodow Leczniczych
Akademii Medycznej w Gdansku (Kierownik: doc. dr. L. Rylski).

WOZNIAK, P.

Needs of Mlody Lotnik, p. 299. (SKRZYDLATA POLSKA, Vol. 10, No. 19, May. 1954,
Warszawa, Poland)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 3, No. 12, Dec.
1954, Uncl.

WOZNIAK, P.

"The problem of instructors in aeroplane models" p. 138 (Skrzydla I Motor, Vol. 8, no. 9, Mar 53, Warszawa)

SO: Monthly List of East European Accessions, Vol 2 No 9 Library of Congress Sept 53 Unclassified

WOZNIAK, P.

Central Council of Aeromantic Modeling in 1954. p. 284

SKRZEDŁO POLSKA vol. 10, no. 18, May 1954

Poland

so. EAST EUROPEAN ACCESSIONS LIST vol. 5, no. 10 Oct. 1956

MARCZEWSKI, Zbigniew (Warszawa); WOZNIAK, Roman (Warszawa)

Scientific and research activities of the Chair of Technology of Prefabricates and Prestressed Concrete of the Warsaw Polytechnic College during the last ten years. Przegl budowl i bud mieszk 35 no.2:98-103 F '63.

electrical Engineering
WOZNIAK, R.

4779. Regeneration of 60 and 110 kV oil-filled
cables. R. WOZNIAK. Energetyka, 7, No. 3, 136-9
(1953) In Polish.

Service life of an oil-filled cable can be lengthened by removing air and moisture which has leaked to the oil. In this treatment oil is removed from various cable components, heated to a controlled temperature, filtered and de-aerated under high vacuum before being pumped back to the dry component. Rigorous maintenance of temperature and vacuum levels is essential to prevent failures. Methods of measurement of moisture content, dielectric strength and power factor of oil are mentioned. Measurement of the quantity of air contained in a cable is fully discussed.

J. LUKASZEWICZ

Ela
①

6/3/52 P

WOZNIAK, R.

Small device for feeding insulators.

p. 137
Vol. 9, no. 3, May/June 1955
ENERGETYKA
Stalinogrod

SO: Monthly List of East European Accessions (EEAL), LC, Vol. 5, no. 2
Feb. 1956

WOZNIAK, R., Lesiowski, J.

Modernization of obsolete oil circuit breakers of 6 and 20 kv. p. 73.
(ELEKTROTYKA. Vol. 10, no. 2, Mar/Apr. 1956. Warszawa, Poland)

SO: Monthly List of East European Accessions (EEL) Lc. Vol. 6, no. 12, Dec. 1957.
Uncl.

WOZNIAK, R.

Exploratory experiments with a new type of cable box for 110 kv. oil-filled cables. p. 309.
(ENERGETYKA. Vol.10, no. 6, Nov./Dec. 1956.)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 7, July 1957. Uncl.

WOZNIAK, S.

We are building the model of a modern aircraft carrier. P. 20
(n). Together with friends. P. 24
MORZE. (Liga Morska) Warszawa.
Vol. 11, no. 6, June 1956

SOURCE: AEEAL LC Vol. 5, No. 7, July 1956

WOZNIAK, S.

WOZNIAK, S. Let us make a model of a torpedo boat. p. 20.

Vol. 11, no. 10, Oct. 1956

MORZE.

MILITARY & NAVAL SCIENCES

POLAND, WARSZAWA.

So: East European Accession, Vol. 6, No. 5, May 1957

WOZNIAK, Stefania

Primary and secondary resistance of tubercle bacilli to the
major antituberculous drugs in 1961-1963. Gruzlica 32 no.11:
1013-1017 N '64

1. Z Katedry i Kliniki Ftizjatrii Studium Doskonalenia Lekarzy
Akademii Medycznej w Szpitalu im. dr. A. Sokolowskiego w Lodzil.
(Kierownika prof. dr. med. M. Zierski).

WOZNIAK, Stefania

Primary and secondary resistance of tubercle bacilli to substitute drugs in 1961-1963. Gružlica 32 no.11:1027-1030 N°6/.

1. Z Katedry i Kliniki Ftifjatrii Studium Doskonalenia Lekarzy Akademii Medycznej w Szpitalu im. dr. A Sokolowskiego w Łodzi.
(Kierownik: prof. dr. med. M. Zierski).

ZIERSKI, Marian; BEK, Eugenia; STACHLEWSKA, Stanislawa; WANAT-KONDRATOWICZ,
Wladyslawa; WOZNIAK, Stefania; ZACHARA, Anna

Evaluation of results of antibacterial therapy of pat'ents with
recently diagnosed pulmonary tuberculosis under clinical condi-
tions. Gruzlica 32 no.8:621-625 Ag '64.

1. Z Katedry i Kliniki Ftizjatrii Studii Dokształcania Lekarzy
Akademii Medycznej w Szpitalu im. dr. A. Sokolowskiego w Łodzi
(Kierownik: prof. dr. med. M. Ziernski).

WOZNIAK, T.

8

1505

693.008 : 331.87

Czerny E., Wozniak T. The Problem of Team Work and Work Organization in Bricklaying.

"Zagadnienie zespołowej i organizacji pracy w robotach murarskich". Przegląd Budowlany, No. 10, 1951, pp. 448-456. 21 figs.
2 tabs.

Scientific investigation of bricklaying practice in capitalist countries and in the USSR. Work organization in bricklaying in the USSR — work in separate groups and by continuous-flow method. Modernizing bricklaying methods in Poland. Equipment essential for this

work. Tasks of the touring group from the Ministry of Town and Settlement Building. Analysis of increased work efficiency. Material consumption. Scaffolding, transport, brick skips, crane. Role and importance of small scale mechanization of work processes.

WOZNIAK, T.

Attempts to treat diseases of the nervous system with ACTH. Neurologia
d.c. polska 2 no. 6:715-723 Nov-Dec 1952. (CIML 24:2)

1. Of the Neurological Clinic (Head--Prof. E. Herman, M.D.) of Lodz
Medical Academy.

WOZNIAK, T.

Polish Technical Abst.
No. 1 1954
Building Industry and
Architecture

1083

693.62.002.32

✓ Woźniak, T. Further Tests over the Mechanisation of Plastering Work.
"Dalsze próby zmechanizowania robotów tynkarskich". Przegląd Budowlany, No. 3, 1953, pp. 101-103, 6 figs.

The coarse plastering of surfaces was totally mechanised. The smooth finish of coarse plaster, hitherto executed by hand, was also mechanised. This operation is executed by means of a mechanical device for smoothing wall plaster, with an output of 60-80 m²/h.

WOZNIAK, T.

Name does not matter. p. 10.

SKRZYDŁATA POLSKA, Warszawa, Vol. 11, no. 24, June 1955.

SO: Monthly List of East European Accessions, (SEAL), IC, Vol. 4, no. 10, Oct. 1955,
Uncl.

WOZNIAK, Tadeusz, inz.

Success of the 31st International Poznan Fair. Przegl mech
21 no.19/20:581-582 25 0 '62.

1. Zastepca dyrektora do spraw technicznych, Zarzad
Miedzynarodowych Targow Poznanskich, Poznan.

WOZNIAK, Tadeusz, inz.

The 31st International Poznan Fair. Przegl mech 21
no.11:346-349. 10 Je '62.

1. Dyrektor techniczny Miedzynarodowych Targow Poznanskich, Poznan.

WOZNIAK, W.

POL.

3216

677.6 B4 143.0 043.507

Tuszyńska S., Myszkowska K., Wóżniak W., Lewandowska K. Determination of Folic Acid by the Use of Streptococcus Faecalis R.
"Oznaczanie kwasu foliowego przy pomocy Streptococcus Faecalis R", Przemysł Chemiczny, No. 2, 1954, pp. 93-96, 1 fig, 1 tab.

A method is described of determining pteroylglutamic acid by using *Streptococcus Faecalis R*. It was found possible to simplify the growth medium by removing from its composition the basic nutrient, the liver extract and folic acid. Optimum concentration of the strain was established. A method is explained of obtaining casein hydrolysate free from vitamins which can be used for microbiological determination of folic acid as well as for determining other vitamins of group B. This method simplifies investigation and increases the accuracy of determination.

(3)

WOZNIAK, W.

3063

577.16 B₆

Tuszyńska S., Myrzkowska K., Woźniak W., Lewandowska K. Microbiological Method of Determining Vitamin B₆ in Multivitamin Preparations.
"Mikrobiologiczna metoda oznaczania witaminy B₆ w preparatach wielowitaminowych". Przemysł Chemiczny. No. 11, 1954, pp. 577-578,
1 fig., 1 tab.

CH

A microbiological method of determining vitamin B₆ complex in multivitamin preparations, using *Saccharomyces carlsbergensis* 4228 on the basis of the Atkin test. How to prepare casein hydrolysate free of vita-

min B₆ using ultraviolet rays is described together with optimal concentration of strain dispersion and the technique of homogeneous inoculation. As a means of saturating with oxygen, uniform shaking of samples was performed at constant temperature. This method makes it possible to determine the vitamin B₆ in multivitamin preparations containing large quantities of vitamin B¹ (thiamine).

(3)

VV U 5/1961, PW
TUSZYNSKA, St; MYSZKOWSKA, K; WOZNIAK, W; LEWANDOWSKA, K.

Effect of vitamin P on capillary resistance in vitamin C deficiency in guinea pigs. Acta physiol.polon. 6 no.1:99 106 1955.

1. Z Zakladu Badania Organopreparatow i Witamin. Kierownik:
mgr. I. Iwanowska, Instytutu Lekow w Warszawie. Dyrektor:
prof. dr P. Kubikowski.

(CAPILLARIES,

resist., eff. of vitamin P on in exper. scurvy)

(VITAMIN P, effects,

on capillary resist. in exper. scurvy)

(SCURVY, experimental,

eff. of vitamin P on capillary resist. in)

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CIA-RDP86-00513R001961720016-8

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R001961720016-8"

WOZNIAK, W.

TUSZYNSKA, ST.; MYSZKOWSKA, K.; WOZNIAK, W.; TAUTT, J.; LEWANDOWSKA, K.

Effect of sulfoguanidine on degree and order of inhibition of synthesis of digestive thiamine, ryboflavin and nicotinic acid amide in rat. Acta physiol. polon. 8 no.3:556-557 1957.

1. Z Zakladu Badania Organopreparatow i Witamin Instytutu Lekow w Warszawie
Dyrektor: prof. dr P. Kubikowski.

(VITAMIN B COMPLEX, metabolism,
eff. of sulfoguanidine in rats (Pol))
(AMIDINES, effects,

sulfoguanidine on vitamin B complex metab. in rats (Pol))

POLAND/Human and Animal Physiology (Normal and Pathological)
Metabolism. Vitamins.

T

Abs Jour : Ref Zhur Biol., No 6, 1959, 26295

Author : Tuszynska, S., Myszkowska, K., Wozniak, W., Taftt, J.;
Lewandowska, K.

Inst : -

Title : The Influence of Sulfoguanidine on the Degree and
Sequence of Inhibition of Synthesis of Thiamin, Ribofla-
vin and Nicotinic Acid Amide in Rats Intestines

Orig Pub : Acta physiol. polon., 1957, 8, No 4, 727-737

Abstract : The influence of sulfoguanidine (I) on the synthesis of
vitamins D₁, D₂ and PP in the intestines of rats was
studied by determining the indicated vitamins in the
urine and liver of the animals. Inhibition of PP synthe-
sis took place fastest, then D₂; for decrease of D₁ syn-
thesis, higher doses of I were required. The smallest
content of indicated vitamins in urine was noted after

Card 1/2

POLAND/Human and Animal Physiology (Normal and Pathological)
Metabolism. Vitamins.

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Abs Jour : Ref Zhur Biol., No 6, 1959, 26295

the introduction of I in the amount of 0.1-0.175 g per rat. With introduction of small doses of I after small time intervals, the decrease of synthesis of vitamins in the intestines was more significant than in introduction of the whole dose at once.

Card 2/2

TUSZYNSKA, S., MYSZKOWSKA, K., WOZNIAK, W. TAUFT, J.

Effect of chloraphenicol on the course of visceral synthesis of vitamin B complex in rats. Acta physiol polon. 9 no.2:271-277 1958

1. Z Instytutu Leków w Warszawie. Dyrektor: prof. P. Kubikowski.
(VITAMIN B COMPLEX, metabolism,
synthesis, eff. of chloramphenicol. in rats (Pol))
(CHLORAMPHENICOL, effects,
on vitamin B complex synthesis (Pol))